ml1112paper: Solve by factoring (v12)

1. Solve the equation
$$x^2 + 2x - 35 = 0$$

2. Solve the equation
$$x^2 - 4x - 12 = 0$$

3. Solve the equation
$$7x^2 - 6x + 31 = 6x^2 + 7x - 5$$

4. Solve the equation
$$9x^2 + 12x + 10 = 8x^2 + 3x - 4$$

5. Solve the equation
$$11x^2 - 84x + 49 = 0$$

6. Solve the equation
$$11x^2 - 69x - 56 = 0$$

7. Solve the equation
$$11x^2 - 44x + 61 = 6x^2 + 3x + 5$$

8. Solve the equation
$$5x^2 - 19x - 37 = 2x^2 - 6x - 7$$